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1 Spatial domain digital watermarking of multimedia objects for buyer authentication

Mukherjee, D.P.; Maitra, S.; Acton, S.T.;

Multimedia, IEEE Transactions on , Volume: 6 , Issue: 1 , Feb. 2004 Pages:1 - 15

[PDF Full-Text (800 KB)] [Abstract] **IEEE JNL**

2 Fragile watermark based on the Gaussian mixture model in the wavelet domain for image authentication

Yuan, H.; Zhang, X.-P.;

Image Processing, 2003. Proceedings. 2003 International Conference on , Volume: 1 , 14-17 Sept. 2003 Pages:I - 505-8 vol.1

[Abstract] [PDF Full-Text (385 KB)] **IEEE CNF**

3 Blind detection of malicious alterations on still images using robust watermarks

Rey, C.; Dugelay, J.-L.;

Secure Images and Image Authentication (Ref. No. 2000/039), IEE Seminar on , 10 April 2000

Pages:7/1 - 7/6

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1 Counterfeiting attacks on oblivious block-wise independent invisible watermarking schemes

Holliman, M.; Memon, N.;

Image Processing, IEEE Transactions on , Volume: 9 , Issue:

3, March 2000

Pages:432 - 441

[Abstract] [PDF Full-Text (1060 KB)] IEEE JNL

2 A modified robust embedding scheme for faithful watermark extraction

Te-Shen Liang; Rodriguez, J.J.;

Image Processing, 2000. Proceedings. 2000 International Conference

on , Volume: 1 , 10-13 Sept. 2000

Pages:419 - 422 vol.1

[Abstract] [PDF Full-Text (380 KB)] IEEE CNF

3 Transparent robust authentication and distortion measurement technique for images

Zhu, B.; Swanson, M.D.; Tewfik, A.H.;

Digital Signal Processing Workshop Proceedings, 1996., IEEE, 1-4

Sept. 1996 Pages:45 - 48

[Abstract] [PDF Full-Text (604 KB)] IEEE CNF

4 A robust public watermark for halftone images

Ming Sun Fu; Au, O.C.;

Circuits and Systems, 2002. ISCAS 2002. IEEE International

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Pages:639 - 642

[Abstract] [PDF Full-Text (744 KB)] IEEE CNF

5 Watermarks embedded in the permuted image

Jui-Cheng Yen;

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[Abstract] [PDF Full-Text (460 KB)] IEEE CNF

6 A methodology for data hiding using images

Marvel, L.M.; Retter, C.T.; Boncelet, C.G., Jr.; Military Communications Conference, 1998. MILCOM 98. Proceedings., IEEE, Volume: 3, 18-21 Oct. 1998

Pages:1044 - 1047 vol.3

[Abstract] [PDF Full-Text (468 KB)] IEEE CNF

7 Hiding information in images

Marvel, L.M.; Retter, C.T.; Boncelet, C.G., Jr.;

Image Processing, 1998. ICIP 98. Proceedings. 1998 International

Conference on , Volume: 2 , 4-7 Oct. 1998

Pages:396 - 398 vol.2

[Abstract] [PDF Full-Text (272 KB)] IEEE CNF

8 Invisible watermarking for digital video applications and challenges

Huggett, A.; Stubbings, C.;

Secure Images and Image Authentication (Ref. No. 2000/039), IEE Seminar on , 10 April 2000

Pages:9/1 - 9/6

[Abstract] [PDF Full-Text (508 KB)] IEE CNF

9 Next generation technologies to combat counterfeiting of electronic components

Bastia, S.;

Components and Packaging Technologies, IEEE Transactions on [see also Components, Packaging and Manufacturing Technology, Part A: Packaging Technologies, IEEE Transactions on], Volume: 25, Issue: 1, March 2002

Pages:175 - 176

[Abstract] [PDF Full-Text (155 KB)] IEEE JNL

10 Spatial domain digital watermarking of multimedia objects for buyer authentication

Mukherjee, D.P.; Maitra, S.; Acton, S.T.; Multimedia, IEEE Transactions on , Volume: 6 , Issue: 1 , Feb. 2004 Pages:1 - 15

[Abstract] [PDF Full-Text (800 KB)] IEEE JNL

11 Secret and public key image watermarking schemes for image authentication and ownership verification

Ping Wah Wong; Memon, N.; Image Processing, IEEE Transactions on , Volume: 10 , Issue: 10 , Oct. 2001 Pages:1593 - 1601

[Abstract] [PDF Full-Text (280 KB)] IEEE JNL

12 A new decoder for the optimum recovery of nonadditive watermarks

Barni, M.; Bartolini, F.; De Rosa, A.; Piva, A.; Image Processing, IEEE Transactions on , Volume: 10 , Issue: 5 , May 2001 Pages: 755 - 766

[Abstract] [PDF Full-Text (260 KB)] IEEE JNL

13 A class of authentication digital watermarks for secure multimedia communication

Liehua Me; Arce, G.R.; Image Processing, IEEE Transactions on , Volume: 10 , Issue: 11 , Nov. 2001 Pages:1754 - 1764

[Abstract] [PDF Full-Text (275 KB)] IEEE JNL

14 A multi-bit robust watermark for halftone images

Ming Sun Fu; Au, O.C.;

Multimedia and Expo, 2003. ICME '03. Proceedings. 2003 International Conference on , Volume: 1 , 6-9 July 2003

Pages:I - 213-16 vol.1

[Abstract] [PDF Full-Text (401 KB)] IEEE CNF

15 Fragile watermark based on the Gaussian mixture model in the wavelet domain for image authentication

Yuan, H.; Zhang, X.-P.;

Image Processing, 2003. Proceedings. 2003 International Conference

on , Volume: 1 , 14-17 Sept. 2003

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[Abstract] [PDF Full-Text (385 KB)] IEEE CNF

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16 Independent component analysis applied to digital image watermarking

Gonzalez-Serrano, F.J.; Molina-Bulla, H.Y.; Murillo-Fuentes, J.J.; Acoustics, Speech, and Signal Processing, 2001. Proceedings. (ICASSP '01). 2001 IEEE International Conference on , Volume: 3,7-11 May 2001

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Pages:9 vol.1

[PDF Full-Text (20 KB)] [Abstract] IEEE CNF

18 Transform permuted watermarking for copyright protection of digital video

Johnson, A.; Biggar, M.;

Global Telecommunications Conference, 1998. GLOBECOM 98. The

Bridge to Global Integration. IEEE , Volume: 2 , 8-12 Nov. 1998 Pages: 684 - 689 vol. 2

[Abstract] [PDF Full-Text (320 KB)] **IEEE CNF**

19 Watermarking for image authentication

Min Wu; Bede Liu;

Image Processing, 1998. ICIP 98. Proceedings. 1998 International

Conference on , Volume: 2 , 4-7 Oct. 1998

Pages:437 - 441 vol.2

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		"3784289" or "3937565" or "4092654" or	DERWENT	
		"4198147" or "4303307" or "4715623" or		
]	"4914700" or "5027401" or "5113213" or		
		"5178418" or "5195435" or "5303370" or		
		#5206550H - #5420420H on #5700717" or		
		"5396559" or "5438429" or "5708717" or		
		"5830609" or "5904375" or "5974150" or		
		"6084713" or "6104812" or "6171734" or		
		"6222650" or "6252963" or "6256150" or		
İ		"6280891" or "6343138" or "6414794" or		
		"5735547").pn.) and authentication) and		
l l		(invisible adj indicia)		
8	0	((("3524395" or "3635778" or "3642346" or	USPAT;	2004/09/17 21:32
0	0	"3784289" or "3937565" or "4092654" or	DERWENT	2001,03,1, 21.
		"3784289" OF "3937303 OF 4092034 OF	DERWEIT	i i
		"4198147" or "4303307" or "4715623" or		
		"4914700" or "5027401" or "5113213" or		
		"5178418" or "5195435" or "5303370" or		
		"5396559" or "5438429" or "5708717" or		
1		"5830609" or "5904375" or "5974150" or		
		"6084713" or "6104812" or "6171734" or		
		"6222650" or "6252963" or "6256150" or	1	
		"6280891" or "6343138" or "6414794" or		
		"07008A1" OL "0242120 OL 0414124 OL		
		"5735547").pn.) and authentication) and		
		(non-visible adj indicia)		0004/00/15 01 05
9	0	((("3524395" or "3635778" or "3642346" or	USPAT;	2004/09/17 21:33
		"3784289" or "3937565" or "4092654" or	DERWENT	
		"4198147" or "4303307" or "4715623" or		
1		"4914700" or "5027401" or "5113213" or		l i
		"5178418" or "5195435" or "5303370" or		
		"5396559" or "5438429" or "5708717" or		1
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		"5830609" or "5904375" or "5974150" or		
		"6084713" or "6104812" or "6171734" or		
		"6222650" or "6252963" or "6256150" or		
		"6280891" or "6343138" or "6414794" or		ĺ
		"5735547").pn.) and authentication) and		
		(non-visible adj mark)		
1 1	62	("3524395" or "3635778" or "3642346" or	USPAT;	2004/09/17 21:43
1	02	"3784289" or "3937565" or "4092654" or	DERWENT	
		"4198147" or "4303307" or "4715623" or		1
		"4914700" or "5027401" or "5113213" or		
		"5178418" or "5195435" or "5303370" or	i	
i		"5396559" or "5438429" or "5708717" or		
		"5830609" or "5904375" or "5974150" or		1
		"6084713" or "6104812" or "6171734" or		
		"6222650" or "6252963" or "6256150" or	1	
		"6280891" or "6343138" or "6414794" or		
		"5735547").pn.		
10	0	((("3524395" or "3635778" or "3642346" or	USPAT;	2004/09/17 21:34
* `		"3784289" or "3937565" or "4092654" or	DERWENT	I
		"4198147" or "4303307" or "4715623" or	DELMENT	
4	I	"4914700" or "5027401" or "5113213" or		
		HEADOLAGH HEAGE LOCH CONTRACTOR	1	
		"5178418" or "5195435" or "5303370" or		
		"5178418" or "5195435" or "5303370" or "5396559" or "5438429" or "5708717" or	eren .	
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		"5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or	<u></u>	the many the second
		"5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or	es .	
		"5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or	eren .	
		"5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and	es es es es es es es es es es es es es e	
		"5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and (invisible near indicia)		2004/00/17 21-42
11	0	"5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and	USPAT;	2004/09/17 21:43
11	0	"5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and (invisible near indicia)		
11	0	"5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and (invisible near indicia) 2001/0005570.ap.	USPAT;	2004/09/17 21:43 2004/09/17 21:44
		"5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and (invisible near indicia)	USPAT; DERWENT	2004/09/17 21:44
12	0	"5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and (invisible near indicia) 2001/0005570.ap.	USPAT; DERWENT USPAT; DERWENT	
12	0	"5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and (invisible near indicia) 2001/0005570.ap. 2001/0005570.pn.	USPAT; DERWENT USPAT; DERWENT EPO; JPO	2004/09/17 21:44
12 13 14	0 1 2	"5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and (invisible near indicia) 2001/0005570.ap. 2001/0005570.pn. 598357.pn. 147912.pn.	USPAT; DERWENT USPAT; DERWENT EPO; JPO EPO; JPO	2004/09/17 21:44 2004/09/17 21:44 2004/09/17 21:45
12 13 14 15	0 1 2	"5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and (invisible near indicia) 2001/0005570.ap. 2001/0005570.pn. 598357.pn. 147912.pn. 1147912.pn.	USPAT; DERWENT USPAT; DERWENT EPO; JPO EPO; JPO EPO; JPO	2004/09/17 21:44 2004/09/17 21:44 2004/09/17 21:45 2004/09/17 21:45
12 13 14 15 16	0 1 2 1 0	"5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and (invisible near indicia) 2001/0005570.ap. 2001/0005570.pn. 598357.pn. 147912.pn. 147912.pn. 1407065.pn.	USPAT; DERWENT USPAT; DERWENT EPO; JPO EPO; JPO EPO; JPO EPO; JPO	2004/09/17 21:44 2004/09/17 21:44 2004/09/17 21:45 2004/09/17 21:45 2004/09/17 21:45
12 13 14 15 16 17	0 1 2	"5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and (invisible near indicia) 2001/0005570.ap. 2001/0005570.pn. 598357.pn. 147912.pn. 1407065.pn. 407065.pn.	USPAT; DERWENT USPAT; DERWENT EPO; JPO EPO; JPO EPO; JPO EPO; JPO EPO; JPO	2004/09/17 21:44 2004/09/17 21:44 2004/09/17 21:45 2004/09/17 21:45 2004/09/17 21:45 2004/09/17 21:46
12 13 14 15 16	0 1 2 1 0	"5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and (invisible near indicia) 2001/0005570.ap. 2001/0005570.pn. 598357.pn. 147912.pn. 147912.pn. 1407065.pn.	USPAT; DERWENT USPAT; DERWENT EPO; JPO EPO; JPO EPO; JPO EPO; JPO	2004/09/17 21:44 2004/09/17 21:44 2004/09/17 21:45 2004/09/17 21:45 2004/09/17 21:45 2004/09/17 21:46 2004/09/17 21:46
12 13 14 15 16 17	0 1 2 1 0	"5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and (invisible near indicia) 2001/0005570.ap. 2001/0005570.pn. 598357.pn. 147912.pn. 1407065.pn. 407065.pn.	USPAT; DERWENT USPAT; DERWENT EPO; JPO EPO; JPO EPO; JPO EPO; JPO EPO; JPO	2004/09/17 21:44 2004/09/17 21:44 2004/09/17 21:45 2004/09/17 21:45 2004/09/17 21:45 2004/09/17 21:46 2004/09/17 21:46 2004/09/17 21:46
12 13 14 15 16 17 18	0 1 2 1 0 1 0	"5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and (invisible near indicia) 2001/0005570.ap. 2001/0005570.pn. 598357.pn. 147912.pn. 147912.pn. 1407065.pn. 407065.pn. 10407065.pn.	USPAT; DERWENT USPAT; DERWENT EPO; JPO EPO; JPO EPO; JPO EPO; JPO EPO; JPO EPO; JPO	2004/09/17 21:44 2004/09/17 21:44 2004/09/17 21:45 2004/09/17 21:45 2004/09/17 21:45 2004/09/17 21:46 2004/09/17 21:46 2004/09/17 21:46 2004/09/17 21:46
12 13 14 15 16 17 18 19	0 1 2 1 0 1	"5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and (invisible near indicia) 2001/0005570.ap. 2001/0005570.pn. 598357.pn. 147912.pn. 147912.pn. 1407065.pn. 407065.pn. 10407065.pn.	USPAT; DERWENT USPAT; DERWENT EPO; JPO EPO; JPO EPO; JPO EPO; JPO EPO; JPO EPO; JPO	2004/09/17 21:44 2004/09/17 21:44 2004/09/17 21:45 2004/09/17 21:45 2004/09/17 21:45 2004/09/17 21:46 2004/09/17 21:46

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22	8	beck.in. and "1975"	EPO; JPO	
23	161	beck.in. and GB	EPO; JPO	2004/09/17 21:48
24	0	(beck.in. and GB) and "1975"	EPO; JPO	
25	3	(beck.in. and GB) and "75"	EPO; JPO	2004/09/17 21:49
26	0	w092/04692	EPO; JPO	2004/09/17 21:49
27	0	w092/04692.pn.	EPO; JPO	2004/09/17 21:49
28	0	92/04692.pn.	EPO; JPO	2004/09/17 21:49
29	1	9204692.pn.	EPO; JPO	2004/09/17 21:50
30	1	9315491.pn.	EPO; JPO	2004/09/17 21:50
31	0	9407326.pn.	EPO; JPO	2004/09/17 21:51
32	0	94/07326.pn.	EPO; JPO	2004/09/17 21:51
33	0	9407326.pn.	EPO; JPO	2004/09/17 21:51
34) 1	9815418.pn.	EPO; JPO	2004/09/17 21:52
35	0	0187632.pn.	EPO; JPO	2004/09/17 21:52
36	1	187632.pn.	EPO; JPO	2004/09/17 21:52
37	0	200187632.pn.	EPO; JPO	2004/09/17 21:54
38	0	(("3524395" or "3635778" or "3642346" or	USPAT;	2004/09/17 21:54
	•	"3784289" or "3937565" or "4092654" or	DERWENT	
		"4198147" or "4303307" or "4715623" or		į į
ĺ	["4914700" or "5027401" or "5113213" or		1
		"5178418" or "5195435" or "5303370" or		
	1	"5396559" or "5438429" or "5708717" or	1	(
	Į.	"5830609" or "5904375" or "5974150" or		
Í		"6084713" or "6104812" or "6171734" or	Ì	1
		"6222650" or "6252963" or "6256150" or		
1		"6280891" or "6343138" or "6414794" or		!
		"5735547").pn.) and (invisible adj		1
1		indicia)	1	}
39	0	(("3524395" or "3635778" or "3642346" or	USPAT;	2004/09/17 21:54
33		"3784289" or "3937565" or "4092654" or	DERWENT	2001/03/1. 21.31
		"4198147" or "4303307" or "4715623" or	DEKWENT	
}		"4914700" or "5027401" or "5113213" or		
		"5178418" or "5195435" or "5303370" or		
)		"5396559" or "5438429" or "5708717" or]
1		"5830609" or "5904375" or "5974150" or		1
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1		"6084713" or "6104812" or "6171734" or		·
		"6222650" or "6252963" or "6256150" or		
		"6280891" or "6343138" or "6414794" or		
		"5735547").pn.) and (invisible near		
10		indicia)	17.0D2.Th	0.004/00/17 01.54
40	2	(("3524395" or "3635778" or "3642346" or	USPAT;	2004/09/17 21:54
	ĺ	"3784289" or "3937565" or "4092654" or	DERWENT	
1.		"4198147" or "4303307" or "4715623" or		1
1		"4914700" or "5027401" or "5113213" or		
		"5178418" or "5195435" or "5303370" or		1.
1		"5396559" or "5438429" or "5708717" or		
		"5830609" or "5904375" or "5974150" or		
		"6084713" or "6104812" or "6171734" or	1	1
		"6222650" or "6252963" or "6256150" or		
1		"6280891" or "6343138" or "6414794" or		1
		"5735547").pn.) and (invisible with		
1	}	indicia)	1	
41	0	,,,	USPAT;	2004/09/17 21:55
1	Į.	"3784289" or "3937565" or "4092654" or	DERWENT	
		"4198147" or "4303307" or "4715623" or		
1		"4914700" or "5027401" or "5113213" or		1
		"5178418" or "5195435" or "5303370" or		
1		"5396559" or "5438429" or "5708717" or		
		"5830609" or "5904375" or "5974150" or		
1		"6084713" or "6104812" or "6171734" or		
1		"6222650" or "6252963" or "6256150" or		
J		"6280891" or "6343138" or "6414794" or		j l
		"5735547").pn.) and (invisible with		
		indicia)) and authentication		
				

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42	0	((("3524395" or "3635778" or "3642346" or	USPAT;	2004/09/17 21:55
		"3784289" or "3937565" or "4092654" or	DERWENT	
		"4198147" or "4303307" or "4715623" or	1	
		"4914700" or "5027401" or "5113213" or		
,]	"5178418" or "5195435" or "5303370" or]
		"5396559" or "5438429" or "5708717" or		
!	j	"5830609" or "5904375" or "5974150" or		j
		"6084713" or "6104812" or "6171734" or	İ	
1		"6222650" or "6252963" or "6256150" or]	j
		"6280891" or "6343138" or "6414794" or	1	
]		"5735547").pn.) and (invisible with	j	
		indicia)) and authenticating		i i
43	0	((("3524395" or "3635778" or "3642346" or	USPAT;	2004/09/17 21:55
		"3784289" or "3937565" or "4092654" or	DERWENT	
!		"4198147" or "4303307" or "4715623" or		
		"4914700" or "5027401" or "5113213" or	[
!		"5178418" or "5195435" or "5303370" or		
1		"5396559" or "5438429" or "5708717" or		[
		"5830609" or "5904375" or "5974150" or		
		"6084713" or "6104812" or "6171734" or	İ	
		"6222650" or "6252963" or "6256150" or		
		"6280891" or "6343138" or "6414794" or	ĺ	[
		"5735547").pn.) and (invisible with		
İ	ĺ	indicia)) and authenticat\$4	ĺ	
44	0	(invisble adj indicia) and authenticat\$4	USPAT;	2004/09/17 21:55
			DERWENT	1
45	10	(invisible adj indicia) and authenticat\$4	USPAT;	2004/09/17 21:55
			DERWENT	l i
46	7	((invisible adj indicia) and	USPAT;	2004/09/17 21:55
, <u></u>	}	authenticat\$4) and wavelength	DERWENT	1
47	6	(USPAT;	2004/09/17 21:56
	1	authenticat\$4) and wavelength) and image	DERWENT	{
48	6	((((invisible adj indicia) and	USPAT;	2004/09/17 21:56
		authenticat\$4) and wavelength) and image)	DERWENT	
		and identification		
49	5	(((((invisible adj indicia) and	USPAT;	2004/09/17 21:56
		authenticat\$4) and wavelength) and image)	DERWENT	
		and identification) and compar\$4	}	1
50	2	((((((invisible adj indicia) and	USPAT;	2004/09/17 21:56
		authenticat\$4) and wavelength) and image)	DERWENT	1
		and identification) and compar\$4) and		
		encod\$4]

I Number	Hits	Coanch May	DB	Time stamp
1 Number	6	Search Text ("5708717" or "4914700" or "4198147").pn.	USPAT;	2004/09/17 20:01
	0	(3/08/1/ OI 4914/00 OI 413014/ /.pm.	DERWENT	= 001,03,1, 20.01
2	4	(("5708717" or "4914700" or	USPAT;	2004/09/17 20:01
~	_	"4198147").pn.) and print\$4	DERWENT	
3	1	((("5708717" or "4914700" or	USPAT;	2004/09/17 20:02
		"4198147").pn.) and print\$4) and	DERWENT	
[wavelength	1	1
4	1	(((("5708717" or "4914700" or	USPAT;	2004/09/17 20:02
		"4198147").pn.) and print\$4) and	DERWENT	
		wavelength) and indicia		000.450415.00.00
5	1		USPAT;	2004/09/17 20:03
1		"4198147").pn.) and print\$4) and	DERWENT	1
	20211	wavelength) and indicia) and invisible	TICDATE.	2004/09/17 20:04
6	32311	authenticat\$4	USPAT; DERWENT	2004/09/17 20:04
7	1	authenticat\$4 and (object with (print\$4	USPAT;	2004/09/17 20:06
] '	1	adi region))	DERWENT	2004/03/17 20:00
8	1	(authenticat\$4 and (object with (print\$4	USPAT;	2004/09/17 20:06
J		adj region))) and invisible	DERWENT]
9	0	((authenticat\$4 and (object with (print\$4	USPAT;	2004/09/17 20:06
	-	adj region))) and invisible) and	DERWENT	1
		wavelength		
10	1	((authenticat\$4 and (object with (print\$4	USPAT;	2004/09/17 20:07
		adj region))) and invisible) and light	DERWENT	
11	1	(((authenticat\$4 and (object with (print\$4	USPAT;	2004/09/17 20:08
		adj region))) and invisible) and light)	DERWENT	
		and compar\$4		0004/22/25
12	1	((((authenticat\$4 and (object with	USPAT;	2004/09/17 20:11
		(print\$4 adj region))) and invisible) and	DERWENT	
1,2	017000	light) and compar\$4) and image	I II C D A M .	2004/09/17 20:16
13	917990	382/100, 112, 139, 140.ccls.	USPAT; DERWENT	2004/09/1/ 20:16
14	1377	(382/100, 112, 139, 140.ccls.) and	USPAT;	2004/09/17 20:13
14	15//	(print\$4 near region)	DERWENT	2004/03/17 20:13
15	0	1 12	USPAT;	2004/09/17 20:16
15	1	(print\$4 near region)) and (invisible adj	DERWENT	200 1, 03, 11
	ļ	(indicia))
16	0	· ·	USPAT;	2004/09/17 20:14
	ł	(print\$4 near region)) and (non-visible	DERWENT	
		adj indicia)		
17	2		USPAT;	2004/09/17 20:14
ļ	ļ	(non-visible adj indicia)	DERWENT	
18	28		USPAT;	2004/09/17 20:14
1.0	0.0	(invisible adj indicia)	DERWENT	0004/00/17 00 17
19	20	, , ,	USPAT;	2004/09/17 20:17
120		(invisible adj indicia)) and print\$4	DERWENT	2004/00/17 20:17
20	9	(((382/100, 112, 139, 140.ccls.) and (invisible adj indicia)) and print\$4) and	USPAT; DERWENT	2004/09/17 20:17
		(invisible adj indicia), and princ\$4) and wavelength	DEKMENT	
21	4	T	USPAT;	2004/09/17 20:17
	1	(invisible adj indicia)) and print\$4) and	DERWENT	
	1	wavelength) and layer		
22	4	(((((382/100, 112, 139, 140.ccls.) and	USPAT;	2004/09/17 20:17
		(invisible adj indicia)) and print\$4) and	DERWENT	
1	1	wavelength) and layer) and compar\$4	}	
23	103494	382/(100, 112, 139, "140").ccls.	USPAT;	2004/09/17 20:16
	1		DERWENT	
24	11	(382/(100, 112, 139, "140").ccls.) and	USPAT;	2004/09/17 20:18
105		(invisible adj indicia)	DERWENT	0004/00/17 00 70
25	10		USPAT;	2004/09/17 20:18
26		(invisible adj indicia)) and print\$4	DERWENT	2004/09/17 20:18
26	8	(((382/(100, 112, 139, "140").ccls.) and	USPAT;	2004/09/1/ 20:18
]	(invisible adj indicia)) and print\$4) and wavelength	DERWENT	
27	2		USPAT;	2004/09/17 20:18
1 -	1	(invisible adj indicia)) and print\$4) and	DERWENT	255 1, 51, 2, 25, 20
		wavelength) and layer	Daries Dist.	
28	1	(((((382/(100, 112, 139, "140").ccls.)))	USPAT;	2004/09/17 20:19
]]	(invisible adj indicia)) and print\$4) and	DERWENT	
		wavelength) and layer) and compar\$4		
		<u> </u>		

29	1852	(382/(100, 112, 139, "140").ccls.) and	USPAT;	2004/09/17 20:18
		authenticat\$4	DERWENT	· · · · · · · · · · · · · · · · · · ·
30	5	((382/(100, 112, 139, "140").ccls.) and	USPAT;	2004/09/17 20:18
		authenticat\$4) and (invisible adj indicia)	DERWENT	
31	5		USPAT;	2004/09/17 20:18
		authenticat\$4) and (invisible adj	DERWENT	
		indicia)) and print\$4	Ì	
32	5		USPAT;	2004/09/17 20:18
		authenticat\$4) and (invisible adj	DERWENT	
		indicia)) and print\$4) and wavelength		
33	0		USPAT;	2004/09/17 20:19
		authenticat\$4) and (invisible adj	DERWENT	
		indicia)) and print\$4) and wavelength) and		
		layer		
34	5	(((((382/(100, 112, 139, "140").ccls.)))	USPAT;	2004/09/17 20:22
		authenticat\$4) and (invisible adj	DERWENT	
		indicia)) and print\$4) and wavelength) and		
		compar\$4		
35	451		EPO; JPO	2004/09/17 20:22
37	0	((authenticat\$4 and object) and	EPO; JPO	2004/09/17 20:23
		wavelength) and invisible		
38	0		EPO; JPO	2004/09/17 20:23
		wavelength) and non-visible		
39	0		EPO; JPO	2004/09/17 20:23
		wavelength) and imperceptible		
40	0	1 , , , , , , , , , ,	EPO; JPO	2004/09/17 20:23
		wavelength) and non-visible		
41	0	((((((((((((((((((((EPO; JPO	2004/09/17 20:24
	i	wavelength) and invisible		
42	0	1 ((EPO; JPO	2004/09/17 20:24
		wavelength) and imperceptibel		1
36	7	1 (EPO; JPO	2004/09/17 20:24
43	2		EPO; JPO	2004/09/17 20:24
44	1	((authenticat\$4 and object) and invisible)	EPO; JPO	2004/09/17 20:24
		and light		

	σ	1	Document ID	Issue Date	Page s	Title	Current OR
1			JP 10320517 A	19981204		IDENTITY AUTHENTICATION METHOD AND DEVICE THEREFOR USING MARK INVISIBLE TO NAKED EYE	

	Current XRef	Retrieva l Classif	Inventor	S	С	P	2	3	4	5
1			AIDA, NOBUAKI et al.	×						

•		Image Doc. Displayed	PT
	1	JP 10320517 A	

	σ	1	Document ID	Issue Date	Page s	TICLE	Current OR
1	×		US 6536665 B1	20030325	10	Method and apparatus for transaction card security utilizing embedded image data	235/380

	Current XRef	Retrieva l Classif	Inventor	ន	С	P	2	3	4	5
1	235/379; 235/382; 235/435		Ray, Lawrence A. et al.							

	Ima D:	PΤ	
1	US	6536665	

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, ,	υ	1	Do	cument ID	Issue Date	Page s	Title	Current OR
1			US B2	6603871	20030805	17	First-order authentication system	382/135
2			US B2	6470093	20021022	12	First-order authentication system	382/135
3			US B1	6373965	20020416	23	Apparatus and methods for authentication using partially fluorescent graphic images and OCR characters	382/112
4			US A	5867586	19990202	13	Apparatus and methods for fluorescent imaging and optical character reading	382/112
5			US A	5719948	19980217	12	Apparatus and methods for fluorescent imaging and optical character reading	382/112

	Current XRef	Retrieva l Classif		ventor		S	С	P	2	3	4	5
1	356/71		Liang,	Louis	н.	Ø						
2	356/71		Liang,	Louis	Н.	Ø						
3	382/115; 382/181		Liang,	Louis	н.	×						
4	283/92; 382/321; 713/176		Liang,	Louis	н.	×						
5	283/72; 340/5.86; 382/100; 382/181		Liang,	Louis	н.	×						

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1	US	6603871	
2	US	6470093	
3	US	6373965	
4	US	5867586	
5	US	5719948	

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L Number	Hits	Search Text	DB	Time stamp
1	32315	authenticat\$6	USPAT;	2004/09/18 13:00
_			DERWENT	
2	207	authenticat\$6 and ((attach\$4 or add\$4)	USPAT;	2004/09/18 13:00
		near identification)	DERWENT	
3	17	(authenticat\$6 and ((attach\$4 or add\$4)	USPAT;	2004/09/18 13:00
		near identification)) and invisible	DERWENT	ĺ
4	12	((authenticat\$6 and ((attach\$4 or add\$4)	USPAT;	2004/09/18 12:57
		near identification)) and invisible) and	DERWENT	l
		encod\$4	j	
5	11	(((authenticat\$6 and ((attach\$4 or add\$4)	USPAT;	2004/09/18 12:57
,		near identification)) and invisible) and	DERWENT	
		encod\$4) and image	NGD 3 FF	0004/00/10 10 57
6	17	((((authenticat\$6 and ((attach\$4 or	USPAT;	2004/09/18 12:57
		add\$4) near identification)) and	DERWENT	
		invisible) and encod\$4) and image) andcompar\$4		
7	10	andcompars4 (((authenticat\$6 and ((attach\$4 or	USPAT;	2004/09/18 12:57
′	10	add\$4) near identification)) and	DERWENT	2004/03/18 12.37
	!	invisible) and encod\$4) and image) and	DEKMENT	ļ
		compar\$4		
8	3	(((((authenticat\$6 and ((attach\$4 or	USPAT;	2004/09/18 12:58
-	1	add\$4) near identification)) and	DERWENT	1
	{	invisible) and encod\$4) and image) and		
	1	compar\$4) and indicia	1	ļ
9	3	((((((authenticat\$6 and ((attach\$4 or	USPAT;	2004/09/18 12:58
	1	add\$4) near identification)) and	DERWENT	{
	1	invisible) and encod\$4) and image) and		Į į
	Į.	compar\$4) and indicia) and object		
10	3	((((((authenticat\$6 and ((attach\$4 or	USPAT;	2004/09/18 12:58
		add\$4) near identification)) and	DERWENT	
	ĺ	invisible) and encod\$4) and image) and		(
	1	compar\$4) and indicia) and object) and		
		light	***************************************	0004/00/10 10 00
11	10757	authenticat\$6.ti.	USPAT; DERWENT	2004/09/18 13:00
12	22	authenticat\$6.ti. and ((attach\$4 or	USPAT;	2004/09/18 13:04
12	22	add\$4) near identification)	DERWENT	2004/09/18 13:04
13	1	(authenticat\$6.ti. and ((attach\$4 or	USPAT;	2004/09/18 13:01
13	1	add\$4) near identification)) and invisible	DERWENT	2001,03,10 13.01
14	1	((authenticat\$6.ti. and ((attach\$4 or	USPAT;	2004/09/18 13:01
		add\$4) near identification)) and	DERWENT	
		invisible) and compar\$4		
15	1	(authenticat\$6.ti. and ((attach\$4 or	USPAT;	2004/09/18 13:02
	İ	add\$4) near identification)) and	DERWENT	
		(invisible or imperceiv\$4)	}	
16	1	,	USPAT;	2004/09/18 13:32
		add\$4) near identification)) and	DERWENT	
1.5		(invisible or imperceiv\$4 or non-visible)		0004/00/20 20 22
17	23	1	USPAT;	2004/09/18 13:03
18		or append\$4) near identification)	DERWENT	2004/09/18 13:03
10	8	(authenticat\$6.ti. and ((attach\$4 or add\$4 or append\$4) near identification))	USPAT; DERWENT	2004/09/10 13:03
		adds4 or appends4) hear identification)) and article	DEVMENT	·
19	0	((authenticat\$6.ti. and ((attach\$4 or	USPAT;	2004/09/18 13:04
1 - 7	1	add\$4 or append\$4) near identification))	DERWENT	2001,00/10 13.04
		and article) and (invisible or imperceiv\$4	}	
)		or non-visible)		
20	149		USPAT;	2004/09/18 13:04
		near indicia	DERWENT	
2:1	0	((invisible or imperceiv\$4 or	USPAT;	2004/09/18 13:05
	}	non-visible) near indicia) and ((attach\$4	DERWENT	}
		or add\$4) near identification)		
22	1	((invisible or imperceiv\$4 or	USPAT;	2004/09/18 13:05
		non-visible) near indicia) and	DERWENT	
22		(additional near identification)		0004/00/15
23	1	(((invisible or imperceiv\$4 or	USPAT;	2004/09/18 13:05
l	j	non-visible) near indicia) and	DERWENT	
		(additional near identification)) and		
24		article	HODRE	2004/00/10 14:15
24	1	6373965.pn. and encod\$4	USPAT;	2004/09/18 14:15
	1	<u></u>	DERWENT	

25	1	6373965.pn. and lens	USPAT;	2004/09/18 14:16
			DERWENT	
26	0	6373965.pn. and network	USPAT;	2004/09/18 14:16
1			DERWENT	l
27	1	6373965.pn. and communication	USPAT;	2004/09/18 14:17
			DERWENT	
28	0	6373965.pn. and database	USPAT;	2004/09/18 14:17
ĺ			DERWENT	
29	2447063	6373965.pn. and data base	USPAT;	2004/09/18 14:17
			DERWENT	
30	0	6373965.pn. and (data adj base)	USPAT;	2004/09/18 14:18
i	_		DERWENT	
31	. 0	6373965.pn. and base	USPAT;	2004/09/18 14:18
		6000065	DERWENT	0004/00/10 14 04
32	0	6373965.pn. and file	USPAT;	2004/09/18 14:24
22	,	6070065	DERWENT	0004/00/10 14 00
33	1	6373965.pn. and distance	USPAT;	2004/09/18 14:29
24	1	6072065	DERWENT	2004/00/10 14 55
34	1	6373965.pn. and transmit\$4	USPAT;	2004/09/18 14:55
35	1	(272005	DERWENT	2004/00/10 15:00
33	1	6373965.pn. and computer	USPAT;	2004/09/18 15:00
36	1	6272065 pp. and leastion	DERWENT	2004/00/10 15-17
30	1	6373965.pn. and location	USPAT;	2004/09/18 15:17
37	1	10000617 mm	DERWENT	2004/00/10 15-19
131	<u> </u>	10320517.pn.	EPO; JPO	2004/09/18 15:18